

10A13

July 25, 2001

Re: 09/708,562 (US 5,834,922)

Dear Examiner Tso,

Attached are the requested litigation search results.

Several patent litigation and news databases were searched using Dialog, Lexis-Nexis and Questel-Orbit search systems.

No Litigation cases were found to be associated with this patent number.

Thank you for using EIC2800!

Paul Schulwitz
308-6559
CP4-9C18

Source: [All Sources](#) > [Area of Law - By Topic](#) > [Patent Law](#) > [Patents](#) > [U.S. Patents](#) > [Utility Patents](#) 

Terms: **patno is 5,834,922** ([Edit Search](#))

*Pat. No. 5834922, **

5,834,922

◆ GET 1st DRAWING SHEET OF 6

Nov. 10, 1998

Secondary battery power storage system

REISSUE: Reissue Application filed Nov. 9, 2000 (O.G. Mar. 6, 2001) Ex. Gp.: 2838; Re. S.N. 09/708,562

Reissue Application filed Nov. 9, 2000 (O.G. Feb. 27, 2001) Ex. Gp.: 2838; Re. S.N. 09/708,562

INVENTOR: Ikawa, Kyoko, Hitachi, Japan
Horiba, Tatsuo, Hitachi, Japan

ASSIGNEE-AT-ISSUE: Hitachi, Ltd., Tokyo, Japan (03)

APPL-NO: 606,226

FILED: Feb. 23, 1996

FOR-PRIOR:

Dec. 27, 1993 Japan 5-331000

REL-US-DATA:

Continuation of Ser. No. 363,372, Dec. 23, 1994 now abandoned

INT-CL: [6] H01M 10#44; H01M 10#46

US-CL: 320#136;

CL: 320;

SEARCH-FLD: 429#61; 320#5, 6, 10, 9, 13, 14, 39, 15, 30, 121, 116, 125, 132, 134, 136, 149, 160

REF-CITED:

U. S. PATENT DOCUMENTS

3, 445, 744	5/1969	* Henderson	320#6
4, 564, 798	1/1986	* Young	320#6
4, 575, 679	3/1986	* Chung	324#427
4, 583, 034	4/1986	* Martin	320#21
5, 254, 929	10/1993	* Yang	320#15
5, 334, 926	8/1994	* Imaizumi	320#15
5, 481, 175	1/1996	* Qualich	320#15
5, 530, 335	6/1996	* Decker	320#5

1/1 PLUSPAT - (C) QUESTEL-ORBIT

PN - US5834922 A 19981110 [US5834922]

TI - (A) Secondary battery power storage system

PA - (A) HITACHI LTD (JP)

IN - (A) IKAWA KYOKO (JP); HORIBA TATSUO (JP)

AP - US60622696 19960223 [1996US-0606226]

PR - US60622696 19960223 [1996US-0606226]

- JP33100093 19931227 [1993JP-0331000]

- US36337294 19941223 [1994US-0363372]

IC - (A) H01M-010/44 H01M-010/46

EC - H02J-003/32

- H02J-007/00C3

- H02J-007/00K

- H02J-007/34

PCL - ORIGINAL (O) : 320136000

DT - Basic

CT - US3445744; US4564798; US4575679; US4583034; US5254929; US5334926;
US5481175; US5530335; EP0225106; EP0334474; DE3939522; JP01012828;
JP02273037; WOA9003682

- Steffens, Technische Rundschau, "Minikraftwerke in Kundennahe", 20
Sep. 1989, vol. 81, No. 42 pp. 86-89.

Communication Pursuant to Article 96(2) and Rule 51(2) EPC, (Jun. 2,
1998).

STG - (A) United States patent

AB - The present invention provides a distributed secondary battery type
power storage system capable of maintaining the soundness of the
secondary battery and of efficient electric power charging and
discharging operations. The secondary battery power storage system
comprises a secondary battery connected to a load, a charge/discharge
unit connectable to a power system and connected to the secondary
battery, and a plurality of loads connected to the charge/discharge
unit. A power receiving object is selected and a capacity is
determined on the basis of information about the operating condition
of the plurality of loads, and the surplus electric power remaining in
the secondary battery after feeding electric power from the secondary
battery to the load is fed to the selected power receiving object
through the charge/discharge unit. The secondary battery power storage
system is capable of maintaining the soundness of the secondary
battery and of efficient charging and discharging operation.

1/1 LGST - (C) LEGSTAT

PN - US 5834922 [US5834922]

AP - US 606226/96 19960223 [1996US-0606226]

DT - US-P

ACT - 19960223 US/AE-A

APPLICATION DATA (PATENT)

{US 606226/96 19960223 [1996US-0606226]}

- 19981110 US/A

PATENT

- 20010227 US/RF

REISSUE APPLICATION FILED

20001109

- 20010306 US/RF

REISSUE APPLICATION FILED

20001109

UP - 2001-10

1/1 CRXX - (C) CLAIMS/RRX

AN - 3069648

PN - 5,834,922 A 19981110 [US5834922]

PA - Hitachi Ltd JP

PT - E (Electrical)

ACT - 20001109 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20010227

REISSUE REQUEST NUMBER: 09/708562

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2838

Reissue Patent Number:

- 20001109 REISSUE REQUESTED

ISSUE DATE OF O.G.: 20010306

REISSUE REQUEST NUMBER: 09/708562

EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 2838

Reissue Patent Number:

UP - 2001-09

UACT- 2001-03-06

1/2 PAST - (C) PAST

AN - 200110-000913

PN - 5834922 A [US5834922]

DT - A (UTILITY)

OG - 2001-03-06

CO - REA

ACT - REISSUE APPLICATION FILED

SH - REISSUE APPLICATION FILED

2/2 PAST - (C) PAST

AN - 200109-000911

PN - 5834922 A [US5834922]

DT - A (UTILITY)

OG - 2001-02-27

CO - REA

ACT - REISSUE APPLICATION FILED

SH - REISSUE APPLICATION FILED

1/39/1

DIALOG(R) File 345:Inpadoc/Fam.& Legal Stat
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12424920

Basic Patent (No,Kind,Date): EP 660489 A2 19950628 <No. of Patents: 011>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
DE 69425951	C0	20001026	DE 69425951	A	19941221	
DE 69425951	T2	20010426	DE 69425951	A	19941221	
EP 660489	A2	19950628	EP 94120263	A	19941221	(BASIC)
EP 969580	A2	20000105	EP 99114157	A	19941221	
EP 660489	A3	19950830	EP 94120263	A	19941221	
EP 969580	A3	20000726	EP 99114157	A	19941221	
EP 660489	B1	20000920	EP 94120263	A	19941221	
JP 7192769	A2	19950728	JP 93331000	A	19931227	
JP 2979939	B2	19991122	JP 93331000	A	19931227	
US 5834922	A	19981110	US 606226	A	19960223	
US 6034507	A	20000307	US 134708	A	19980814	

Priority Data (No,Kind,Date):

JP 93331000 A 19931227
EP 94120263 A3 19941221
US 606226 A 19960223
US 363372 B1 19941223
US 134708 A 19980814
US 606226 A1 19960223

PATENT FAMILY:

GERMANY (DE)

Patent (No,Kind,Date): DE 69425951 C0 20001026
STROMSPEICHERSYSTEM FUER SEKUNDAERBATTERIEN (German)
Patent Assignee: HITACHI LTD (JP)
Author (Inventor): IKAWA KYOKO (JP); HORIBA TATSUO (JP)
Priority (No,Kind,Date): JP 93331000 A 19931227
Applic (No,Kind,Date): DE 69425951 A 19941221
IPC: * H02J-007/34
Derwent WPI Acc No: * G 95-226756; G 00-138481
Language of Document: German

Patent (No,Kind,Date): DE 69425951 T2 20010426
STROMSPEICHERSYSTEM FUER SEKUNDAERBATTERIEN (German)
Patent Assignee: HITACHI LTD (JP)
Author (Inventor): IKAWA KYOKO (JP); HORIBA TATSUO (JP)
Priority (No,Kind,Date): JP 93331000 A 19931227
Applic (No,Kind,Date): DE 69425951 A 19941221
IPC: * H02J-007/34
Derwent WPI Acc No: * G 95-226756; G 00-138481
Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):

DE 69425951	P	20001026	DE REF	CORRESPONDS TO (ENTSPRICHT)
			EP 660489 P 20001026	
DE 69425951	P	20010426	DE 8373	TRANSLATION OF PATENT DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND HAS BEEN PUBLISHED (UEBERSETZUNG DER PATENTSCHEFT DES EUROPÄISCHEN PATENTES IST

EINGEGANGEN UND VERÖFFENTLICHT WORDEN)

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 660489 A2 19950628

SECONDARY BATTERY POWER STORAGE SYSTEM. (English; French; German)

Patent Assignee: HITACHI LTD (JP)

Author (Inventor): IKAWA KYOKO (JP); HORIBA TATSUO (JP)

Priority (No,Kind,Date): JP 93331000 A 19931227

Applic (No,Kind,Date): EP 94120263 A 19941221

Designated States: (National) DE; FR; GB

IPC: * H02J-007/34

Derwent WPI Acc No: * G 95-226756; G 00-138481; G 95-226756

Language of Document: English

Patent (No,Kind,Date): EP 969580 A2 20000105

SECONDARY BATTERY POWER STORAGE SYSTEM (English; French; German)

Patent Assignee: HITACHI LTD (JP)

Author (Inventor): IKAWA KYOKO (JP); HORIBA TATSUO (JP)

Priority (No,Kind,Date): EP 94120263 A3 19941221; JP 93331000 A 19931227

Applic (No,Kind,Date): EP 99114157 A 19941221

Designated States: (National) DE; FR; GB

IPC: * H02J-007/10

Derwent WPI Acc No: * G 95-226756; G 00-138481; G 00-138481

Language of Document: English

Patent (No,Kind,Date): EP 660489 A3 19950830

SECONDARY BATTERY POWER STORAGE SYSTEM. (English; French; German)

Patent Assignee: HITACHI LTD (JP)

Author (Inventor): IKAWA KYOKO (JP); HORIBA TATSUO (JP)

Priority (No,Kind,Date): JP 93331000 A 19931227

Applic (No,Kind,Date): EP 94120263 A 19941221

Designated States: (National) DE; FR; GB

IPC: * H02J-007/34

Derwent WPI Acc No: * G 95-226756; G 00-138481

Language of Document: English

Patent (No,Kind,Date): EP 969580 A3 20000726

SECONDARY BATTERY POWER STORAGE SYSTEM (English; French; German)

Patent Assignee: HITACHI LTD (JP)

Author (Inventor): IKAWA KYOKO (JP); HORIBA TATSUO (JP)

Priority (No,Kind,Date): EP 94120263 A3 19941221; JP 93331000 A 19931227

Applic (No,Kind,Date): EP 99114157 A 19941221

Designated States: (National) DE; FR; GB

IPC: * H02J-007/10

Derwent WPI Acc No: * G 95-226756; G 00-138481

Language of Document: English

Patent (No,Kind,Date): EP 660489 B1 20000920

SECONDARY BATTERY POWER STORAGE SYSTEM (English; French; German)

Patent Assignee: HITACHI LTD (JP)

Author (Inventor): IKAWA KYOKO (JP); HORIBA TATSUO (JP)

Priority (No,Kind,Date): JP 93331000 A 19931227

Applic (No,Kind,Date): EP 94120263 A 19941221

Designated States: (National) DE; FR; GB

IPC: * H02J-007/34

Derwent WPI Acc No: * G 95-226756; G 00-138481

Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 660489 P 19931227 EP AA

PRIORITY (PATENT

APPLICATION) (PRIORITAET (PATENTANMELDUNG))

EP 660489	P	JP 93331000 A 19931227 19941221 EP AE EP-APPLICATION (EUROPAEISCHE ANMELDUNG)
EP 660489	P	EP 94120263 A 19941221 19950628 EP AK DESIGNATED CONTRACTING STATES IN AN APPLICATION WITHOUT SEARCH REPORT (IN EINER ANMELDUNG OHNE RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)
EP 660489	P	DE FR GB 19950628 EP A2 PUBLICATION OF APPLICATION WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG OHNE RECHERCHENBERICHT)
EP 660489	P	19950628 EP 17P REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 941221
EP 660489	P	19950830 EP AK DESIGNATED CONTRACTING STATES IN A SEARCH REPORT (IN EINEM RECHERCHENBERICHT BENANNT VERTRAGSSTAATEN)
EP 660489	P	DE FR GB 19950830 EP A3 SEPARATE PUBLICATION OF THE SEARCH REPORT (ART. 93) (GESONDERTE VEROEFFENTLICHUNG DES RECHERCHENBERICHTS (ART. 93))
EP 660489	P	19970115 EP 17Q FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID) 961203
EP 660489	P	19990915 EP RAHF DIVISIONAL APPLICATION (ART 76) IN: (CORRECTION) (TEILANMELDUNG (ART. 76) IN: (KORR.))
EP 660489	P	EP 99114157 A 19990721 20000105 EP AH DIVISIONAL APPLICATION (ART. 76) IN: (TEILANMELDUNG (ART. 76) IN:) EP 969580 P
EP 660489	P	20000920 EP AHF DIVISIONAL APPLICATION (ART. 76) IN: (TEILANMELDUNG (ART. 76) IN:) 969580
EP 660489	P	EP 99114157 A 19990721 20000920 EP AK DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTSCHRIFT ANGEFUEHRTE BENANNT VERTRAGSSTAATEN)
EP 660489	P	DE FR GB 20000920 EP B1 PATENT SPECIFICATION (PATENTSCHRIFT)
EP 660489	P	20001026 EP REF CORRESPONDS TO: (ENTSPRICHT) DE 69425951 P 20001026
EP 660489	P	20010105 EP ET FR: TRANSLATION FILED (FR: TRADUCTION A ETE REMISE)
EP 969580	P	19931227 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))
EP 969580	P	JP 93331000 A 19931227 19941221 EP AA DIVIDED OUT OF

(AUSSCHIEDUNG AUS)
 EP 969580 P 19941221 EP AE 19941221 EP-APPLICATION
 (EUROPAEISCHE ANMELDUNG)
 EP 969580 P 20000105 EP AC 19941221 DIVISIONAL APPLICATION (ART.
 76) OF: (TEILANMELDUNG (ART. 76) AUS:)
 EP 660489 P
 EP 969580 P 20000105 EP AK DESIGNATED CONTRACTING
 STATES IN AN APPLICATION WITHOUT SEARCH
 REPORT: (IN EINER ANMELDUNG OHNE
 RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
 DE FR GB
 EP 969580 P 20000105 EP A2 PUBLICATION OF APPLICATION
 WITHOUT SEARCH REPORT (VEROEFFENTLICHUNG DER
 ANMELDUNG OHNE RECHERCHENBERICHT)
 EP 969580 P 20000105 EP 17P REQUEST FOR EXAMINATION
 FILED (PRUEFUNGSANTRAG GESTELLT)
 19990721
 EP 969580 P 20000726 EP AK DESIGNATED CONTRACTING
 STATES IN A SEARCH REPORT: (IN EINEM
 RECHERCHENBERICHT BENANNTE VERTRAGSSTAATEN)
 DE FR GB
 EP 969580 P 20000726 EP A3 SEPARATE PUBLICATION OF THE
 SEARCH REPORT (ART. 93) (GESONDERTE
 VEROEFFENTLICHUNG DES RECHERCHENBERICHTS
 (ART. 93))
 EP 969580 P 20010411 EP AKX PAYMENT OF DESIGNATION FEES
 (ZAHLUNG VON BENENNUNGSGEBUHREN)
 DE FR GB

JAPAN (JP)

Patent (No,Kind,Date): JP 7192769 A2 19950728
 SECONDARY BATTERY POWER STORAGE SYSTEM (English)
 Patent Assignee: HITACHI LTD
 Author (Inventor): IGAWA MICHIKO; HORIBA TATSUO
 Priority (No,Kind,Date): JP 93331000 A 19931227
 Applic (No,Kind,Date): JP 93331000 A 19931227
 IPC: * H01M-010/44; H01M-010/48
 Derwent WPI Acc No: * G 95-226756
 Language of Document: Japanese
 Patent (No,Kind,Date): JP 2979939 B2 19991122
 Patent Assignee: HITACHI LTD
 Author (Inventor): IGAWA MICHIKO; HORIBA TATSUO
 Priority (No,Kind,Date): JP 93331000 A 19931227
 Applic (No,Kind,Date): JP 93331000 A 19931227
 IPC: * H01M-010/44; H01M-010/48
 Language of Document: Japanese

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5834922 A 19981110
 SECONDARY BATTERY POWER STORAGE SYSTEM (English)
 Patent Assignee: HITACHI LTD (JP)
 Author (Inventor): IKAWA KYOKO (JP); HORIBA TATSUO (JP)
 Priority (No,Kind,Date): US 606226 A 19960223; JP 93331000 A
 19931227; US 363372 B1 19941223

Applic (No,Kind,Date): US 606226 A 19960223
 National Class: * 320136000
 IPC: * H01M-010/44; H01M-010/46
 Derwent WPI Acc No: * G 95-226756; G 00-138481
 Language of Document: English
 Patent (No,Kind,Date): US 6034507 A 20000307
 ELECTRIC VEHICLE WITH SECONDARY BATTERY POWER STORAGE SYSTEM (English)
 Patent Assignee: HITACHI LTD (JP)
 Author (Inventor): IKAWA KYOKO (JP); HORIBA TATSUO (JP)
 Priority (No,Kind,Date): US 134708 A 19980814; JP 93331000 A
 19931227; US 606226 A1 19960223; US 363372 B1 19941223
 Applic (No,Kind,Date): US 134708 A 19980814
 National Class: * 320136000; 320132000
 IPC: * H01M-010/46
 Derwent WPI Acc No: * G 95-226756; G 00-138481
 Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 5834922	P	19931227	US AA	PRIORITY (PATENT)
			JP 93331000 A	19931227
US 5834922	P	19941223	US AA	PRIORITY
			US 363372 B1	19941223
US 5834922	P	19960223	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 606226 A	19960223
US 5834922	P	19981110	US A	PATENT
US 5834922	P	20010227	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			20001109	
US 5834922	P	20010306	US RF	REISSUE APPLICATION FILED
			(REISSUE APPL. FILED)	
			20001109	
US 6034507	P	19931227	US AA	PRIORITY (PATENT)
			JP 93331000 A	19931227
US 6034507	P	19941223	US AA	PRIORITY
			US 363372 B1	19941223
US 6034507	P	19960223	US AA	PRIORITY
			US 606226 A1	19960223
US 6034507	P	19980814	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 134708 A	19980814
US 6034507	P	20000307	US A	PATENT

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us5834922

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